

IN THE CLAIMS:

Please rewrite claim 1 as follows:

1. (currently and previously amended) A reactor plate for the catalytic production of aromatic carbonates, comprising:

a substrate with an array of reaction cells; and

a permeable polycarbonate film covering [the cells] at least one cell to selectively permit transport of a reactant gas into the at least one cell while preventing transport of a reaction product out of the [cells] at least one cell;

wherein the permeable polycarbonate film selectively admits transport of oxygen and carbon monoxide and prohibits transport of a diaryl carbonate; and

wherein [each of the cells] the at least one cell is formed from a polycarbonate substrate with two opposing walls comprising permeable polycarbonate film.

2. (previously amended) The reactor plate of claim 1, wherein the permeable polycarbonate film is characterized by a diffusion coefficient of 5×10^{-10} to 5×10^{-7} cc(STP)-mm/cm²-sec-cmHg.

3. (previously amended) The reactor plate of claim 1, wherein the permeable polycarbonate film is characterized by a diffusion coefficient of 1×10^{-9} to 1×10^{-7} cc(STP)-mm/cm²-sec-cmHg.

4. (previously amended) The reactor plate of claim 1, wherein the permeable polycarbonate film is characterized by a diffusion coefficient of 2×10^{-8} to 2×10^{-6} cc(STP)-mm/cm²-sec-cmHg.

5. (previously amended) The reactor plate of claim 1, wherein the permeable polycarbonate film is .0002 to .05 mm thick.

6. (previously amended) The reactor plate of claim 1, wherein the permeable polycarbonate film is .005 to .04 mm thick.

7. (previously amended) The reactor plate of claim 1, wherein the permeable polycarbonate film is .01 to .025 mm thick.

8. (cancelled)

9. (cancelled)

10. (previously amended) The reactor plate of claim 1, wherein the permeable polycarbonate film is a monofilm, coextrusion, composite or laminate.

11. (cancelled)

12. (cancelled)

13. (cancelled)

14. (cancelled)

15. (cancelled)

16. The reactor plate of claim 1, wherein the at least one cell is a concave bottomed cell with permeable film cover.

17. (cancelled)

18. (cancelled)

19. (cancelled)

20. (cancelled)

21. (cancelled)

22. (cancelled)

23. (cancelled)

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32. (cancelled)

33. (cancelled)

34. (cancelled)

35. (cancelled)

36. (cancelled)